CIVIL QUALITY CONSULTANTS & ENGINEERS

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Job No.: CQCE/BBMP/SLE/W.No.14/2017-18 17.01.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency : **M/s. Shri Lakshmi Enterprises,** Bangalore
Name of the work : Improvements to cement Concrete Roads Vijayalakshmi layout in Bagalagunte in Ward No.14, BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{30}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.01.2018	17.01.2018	8.268	495.2	22.01
2	10.01.2018	17.01.2018	8.229	524.5	23.31
3	10.01.2018	17.01.2018	8.251	509.7	22.65

Note:
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Authorised Signatory

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Agency : **M/s. Shri Lakshmi Enterprises,** Bangalore

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.01.2018	17.01.2018	8.265	485.3	21.57
2	10.01.2018	17.01.2018	8.228	510.6	22.69
3	10.01.2018	17.01.2018	8.291	528.1	23.47

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency	: **M/s. Shri Lakshmi Enterprises,** Bangalore
Name of the work	: Improvements to cement Concrete Roads Vijayalakshmi layout in Bagalagunte in Ward No.14, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.01.2018	18.01.2018	8.263	535.6	23.80
2	11.01.2018	18.01.2018	8.284	509.4	22.64
3	11.01.2018	18.01.2018	8.229	484.2	21.52

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **M/s. Shri Lakshmi Enterprises,** Bangalore

Name of the work : Improvements to cement Concrete Roads Vijayalakshmi layout in Bagalagunte in Ward No.14, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.01.2018	18.01.2018	8.368	520.5	23.13
2	11.01.2018	18.01.2018	8.330	519.4	23.08
3	11.01.2018	18.01.2018	8.349	535.1	23.78

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Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **M/s. Shri Lakshmi Enterprises,** Bangalore

Name of the work : Improvements to cement Concrete Roads Vijayalakshmi layout in Bagalagunte in Ward No.14, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.01.2018	18.01.2018	8.268	528.9	23.51
2	11.01.2018	18.01.2018	8.285	499.5	22.20
3	11.01.2018	18.01.2018	8.224	519.7	23.10

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Client	: **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency	: **M/s. Shri Lakshmi Enterprises,** Bangalore
Name of the work	: Improvements to cement Concrete Roads Vijayalakshmi layout in Bagalagunte in Ward No.14, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.01.2018	18.01.2018	8.263	510.5	22.69
2	11.01.2018	18.01.2018	8.254	528.9	23.51
3	11.01.2018	18.01.2018	8.210	536.1	23.83

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Job No.: CQCE/BBMP/SLE/W.No.14/2017-18 Date: 20.01.2018

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client	:	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Contractor	:	**M/s. Shri Lakshmi Enterprises,** Bangalore.
Name of Work	:	Improvements to cement Concrete Roads Vijayalakshmi layout in Bagalagunte in Ward No.14, BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	20.01.2018
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	84.00	0.385	2334.27	1.68	0.960	32.63	16.62	17.95	17.23	21.54
2	50.00	86.00	0.399	2362.90	1.72	0.960	34.84	17.74	19.16	18.40	23.00
3	50.00	88.00	0.415	2401.79	1.76	0.960	35.63	18.15	19.60	18.81	23.52

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Job No.: CQCE/BBMP/SLE/W.No.14/2017-18 Date : 24.01.2018

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **M/s. Shri Lakshmi Enterprises,** Bangalore

Name of Work : Improvements to cement Concrete Roads Vijayalakshmi layout in Bagalagunte in Ward No.14, BBMP, Bangalore.

Date of Testing : 24.01.2018

Material Type : Wet Mix Macadam

Oven Dry.Wt 12713

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	515	515	4.1	95.9	95-100
22.4	4263	4778	37.6	62.4	60-80
11.2	2284	7062	55.5	44.5	40-60
4.75	1963	9025	71.0	29.0	25-40
2.36	1245	10270	80.8	19.2	15-30
0.600	1165	11435	89.9	10.1	8-22
0.075	948	12383	97.4	2.6	0-8

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Job No.: CQCE/BBMP/SLE/W.No.14/2017-18 Date: 24.01.2018

Aggregate Impact Value

IS: 2386 Part IV

Client	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency	**M/s. Shri Lakshmi Enterprises,** Bangalore
Name of the Work	Improvements to cement Concrete Roads Vijayalakshmi layout in Bagalagunte in Ward No.14, BBMP, Bangalore.
Type of Mix	Wet Mix macadam
Date of Testing	24.01.2018

Sl No.	Details	Trial No.			Average
		1	2	3	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	371	373	375	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	84	86	88	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	287	287	287	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	22.64	23.06	23.47	**23.05**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

Note:

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Job No.: CQCE/BBMP/SLE/W.No.14/2017-18 24.01.2018

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency	**M/s. Shri Lakshmi Enterprises,** Bangalore
Name of Work	Improvements to cement Concrete Roads Vijayalakshmi layout in Bagalagunte in Ward No.14, BBMP, Bangalore.
Technical Reference	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Sample ID	WMM Layer
Date of Testing	24.01.2018

Result : Flakiness Index = **11.62%**

Elongation Index = **13.47%**

Result : Combined Flakiness & Elongation index 25.09%

Comments:

Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%

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Job No.: CQCE/BBMP/SLE/W.No.14/2017-18 Date : 24.01.2018

ATTERBERG LIMITS TEST FOR WMM
MORTH TABLE-400-11

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **M/s. Shri Lakshmi Enterprises,** Bangalore

Name of Work : Improvements to cement Concrete Roads Vijayalakshmi layout in Bagalagunte in Ward No.14, BBMP, Bangalore.

Date of Testing : 24.01.2018

Material Type : Wet Mix Macadam

As per MORTH Table 400-13

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit	22.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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